

FIG. 1

CONSTRUCTION OF IEEE 1394 BUS TO WHICH
CONVENTIONAL BUS ANALYZER IS CONNECTED

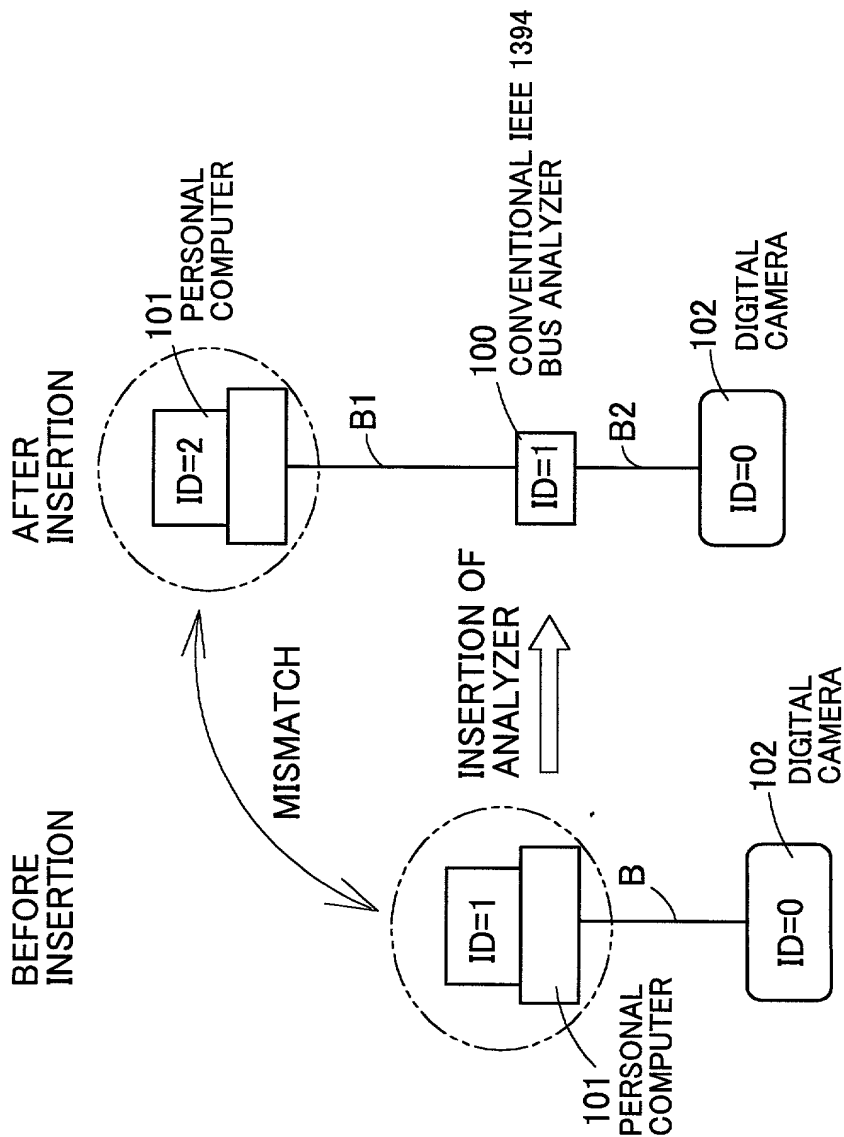


FIG. 2

CONSTRUCTION IN WHICH CONVENTIONAL BUS ANALYZER IS CONNECTED TO IEEE 1394 BUS TO WHICH A NUMBER OF DEVICES ARE CONNECTED

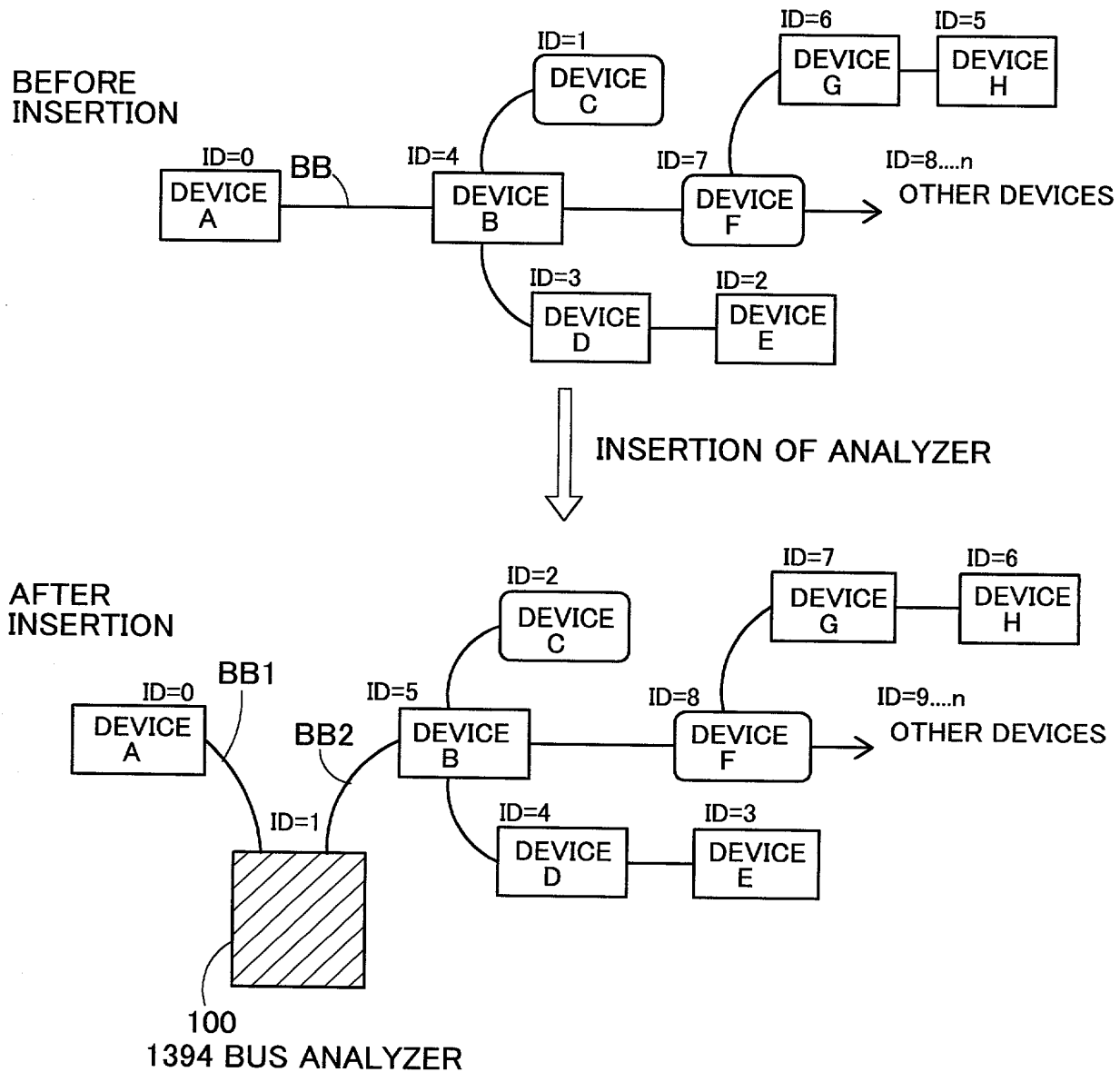


FIG. 3 CONSTRUCTION IN WHICH BUS ANALYZER OF FIRST EMBODIMENT IS CONNECTED TO IEEE 1394 BUS

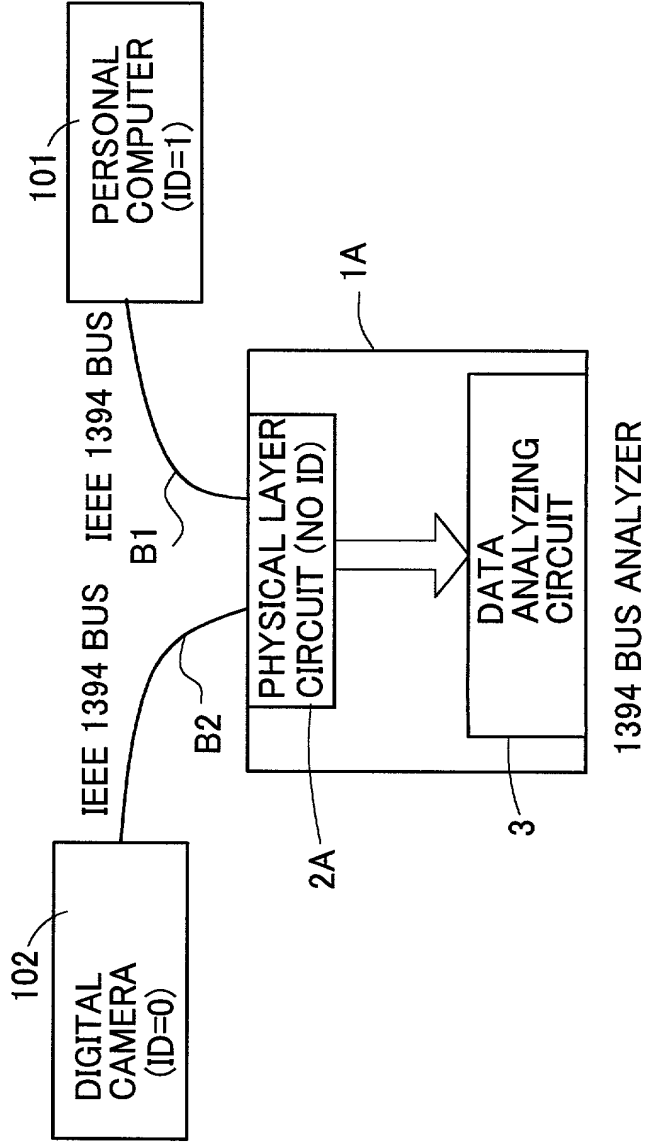


FIG. 4

STATE TRANSITION DIAGRAM SHOWING TREE—IDENTIFYING OPERATION
IN FIRST EMBODIMENT

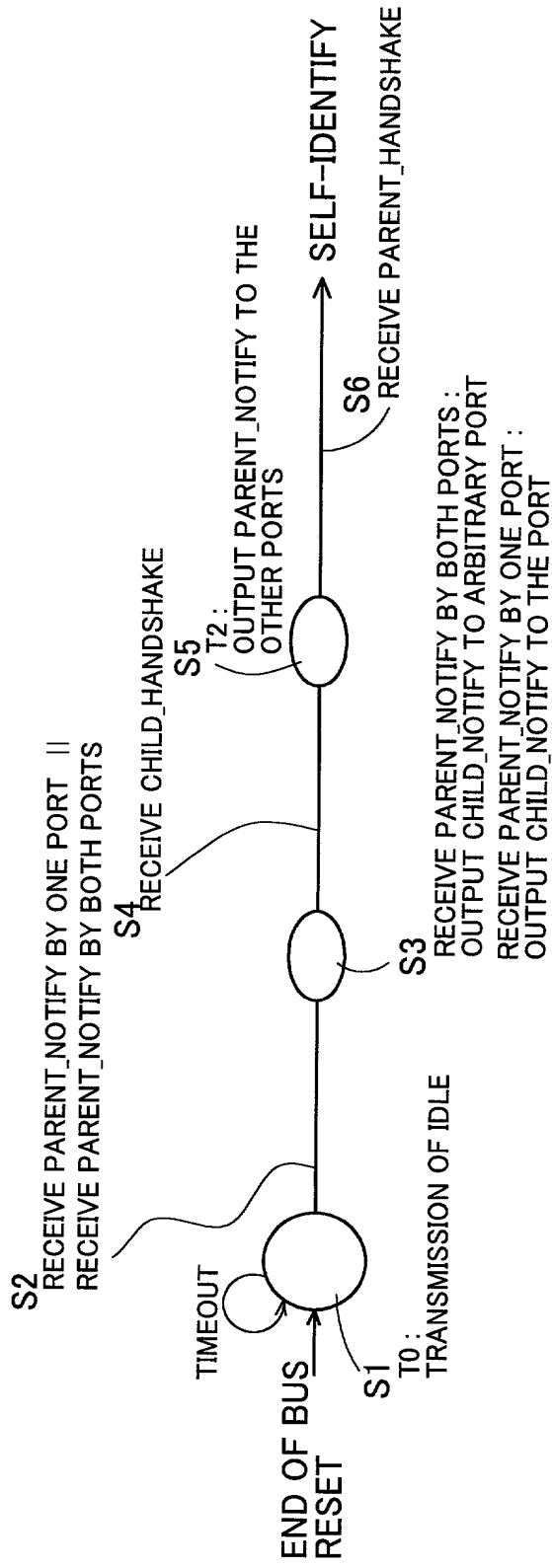


FIG. 5

STATE TRANSITION DIAGRAM SHOWING SELF-IDENTIFYING OPERATION IN FIRST EMBODIMENT

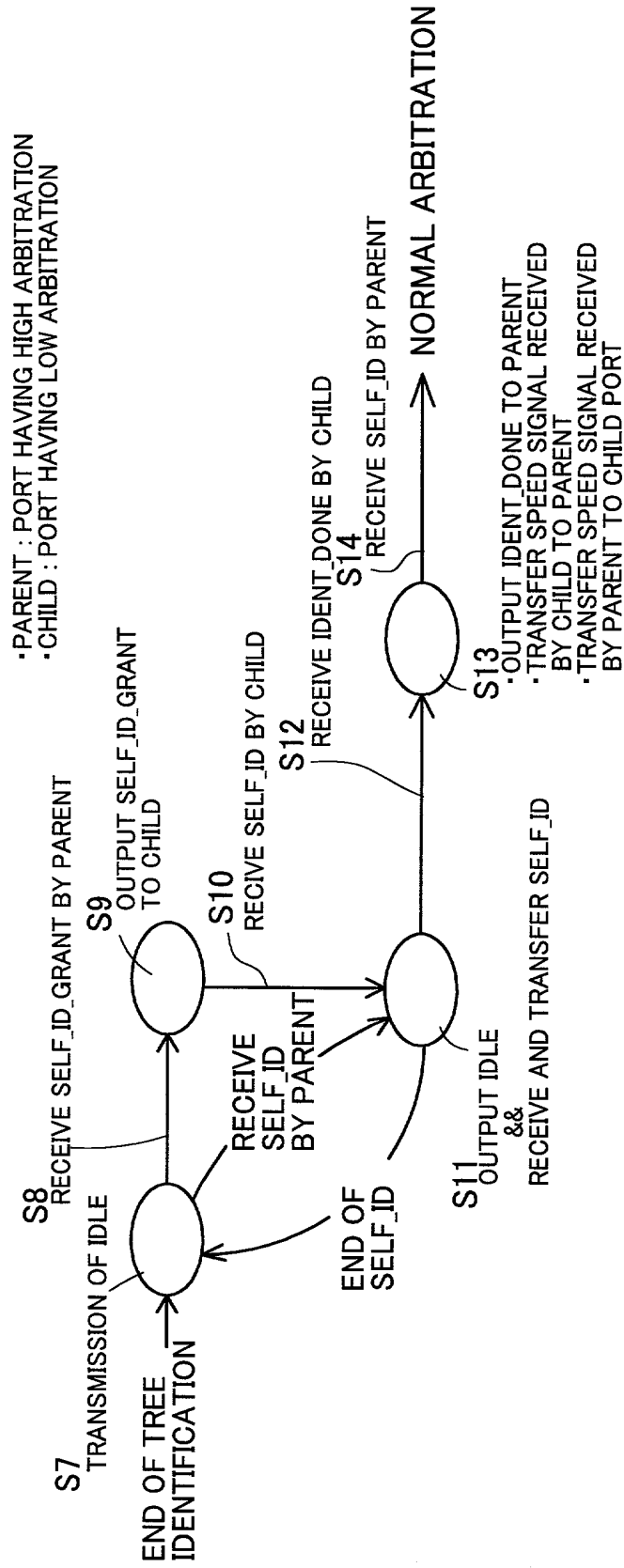
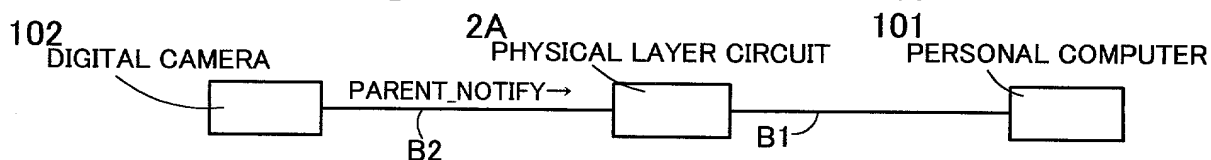
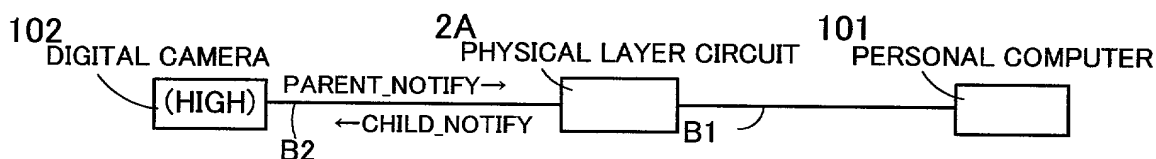


FIG. 6 TREE-IDENTIFYING OPERATION IN FIRST EMBODIMENT
(RECEIVE PARENT_NOTIFY BY ONE OF PORTS)

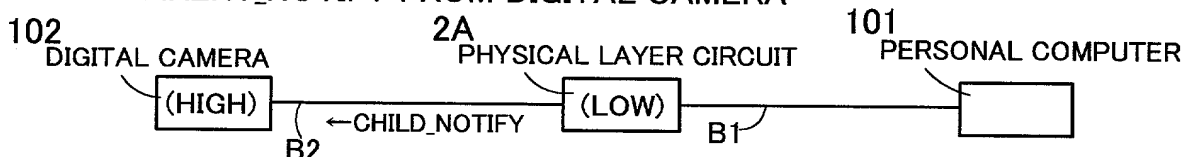
(P1) RECEIVE PARENT_NOTIFY FROM DIGITAL CAMERA



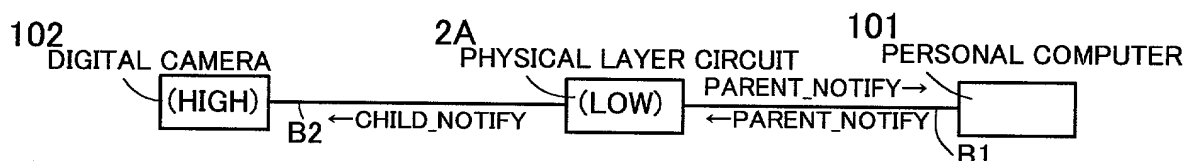
(P2) OUTPUT CHILD_NOTIFY TO DIGITAL CAMERA



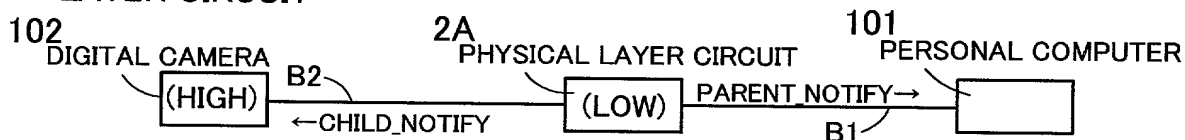
(P3) RECEIVE CHILD_HANDSHAKE BY STOPPING OUTPUT OF PARENT_NOTIFY FROM DIGITAL CAMERA



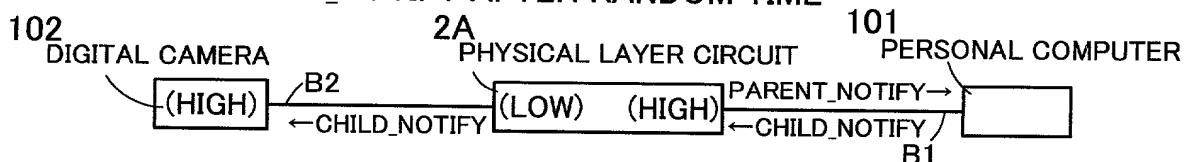
(P4) OUTPUT PARENT_NOTIFY TO THE OTHER PORT RECEIVE ROOT_CONTENTION WHEN PERSONAL COMPUTER ALSO OUTPUTS PARENT_NOTIFY AT THIS TIME



(P5) STOP OUTPUTTING PARENT_NOTIFY FROM PERSONAL COMPUTER BUT CONTINUOUSLY OUTPUT PARENT_NOTIFY FROM PHYSICAL LAYER CIRCUIT



(P6) RECEIVE PARENT_HANDSHAKE WHEN PERSONAL COMPUTER OUTPUTS CHILD_NOTIFY AFTER RANDOM TIME



(P12) STOP OUTPUTTING SIGNALS FROM BOTH PORTS, THEREBY FINISHING TREE-IDENTIFYING OPERATION

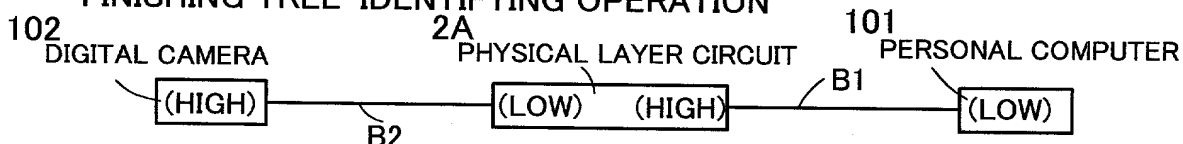
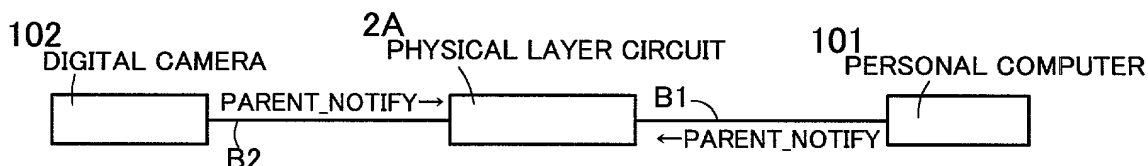


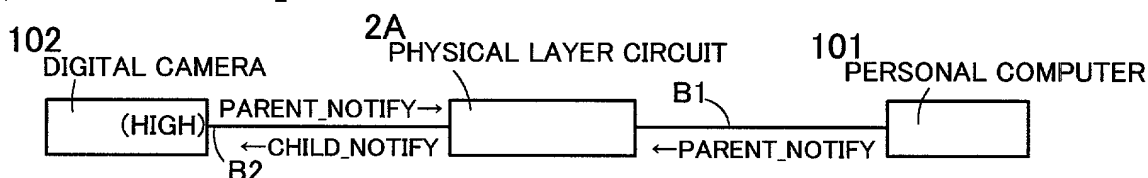
FIG. 7

TREE-IDENTIFYING OPERATION IN FIRST EMBODIMENT (RECEIVE PARENT_NOTIFY BY BOTH PORTS)

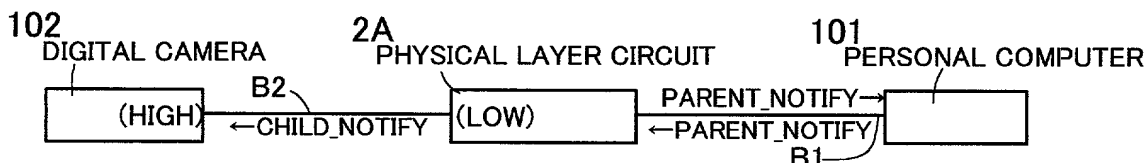
(P7) RECEIVE PARENT_NOTIFY FROM BOTH DEVICES



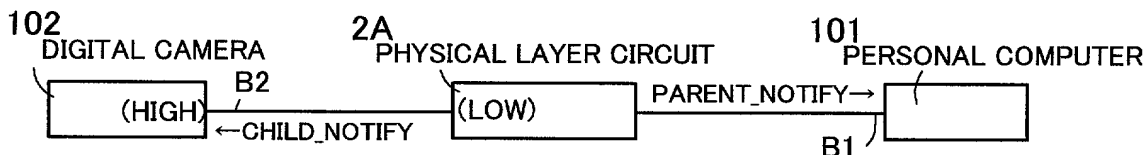
(P8) OUTPUT CHILD_NOTIFY TO DIGITAL CAMERA



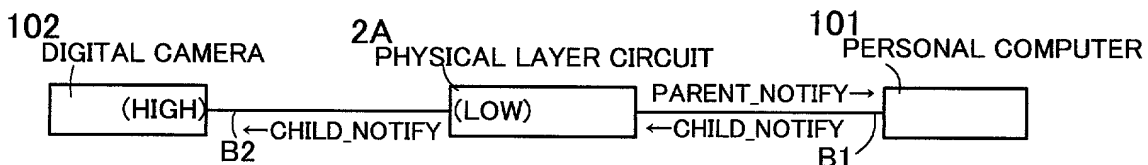
(P9) STOP OUTPUTTING PARENT_NOTIFY FROM DIGITAL CAMERA TO THEREBY RECEIVE CHILD_HANDSHAKE, AND OUTPUT PARENT_NOTIFY TO PERSONAL COMPUTER.
RECEIVE ROOT_CONTENTION WHEN PERSONAL COMPUTER ALSO OUTPUTS PARENT_NOTIFY AT THIS TIME.



(P10) STOP OUTPUTTING PARENT_NOTIFY FROM PERSONAL COMPUTER BUT CONTINUOUSLY OUTPUT PARENT_NOTIFY FROM PHYSICAL LAYER CIRCUIT



(P11) OUTPUT CHILD_NOTIFY FROM PERSONAL COMPUTER AFTER RANDOM TIME, THEREBY RECEIVING PARENT_HANDSHAKE



(P12) FINISH TREE-IDENTIFYING OPERATION

